CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-11/988e/CEMENT/2015-16 Date: 09.11.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Project Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
*NAME OF THE WORK	:	Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	07.11.2015
PERIOD OF TESTING	:	07.11.2015 to 09.11.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-11/988e/SAND-Gradation/2015-16 : 09.11.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 07.11.2015

Date of Testing : 09.11.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.50	90-100	90-100	90-100	95-100
2.36	83.30	60-95	75-100	85-100	95-100
1.18	60.80	30-70	55-90	75-100	90-100
600 Micron	32.30	15-34	35-59	60-79	80-100
300 Micron	13.80	5-20	8-30	12-40	15-50
150 Micron	4.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-11/988e/AGG/GR/2015-16 : 09.11.2015

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 07.11.2015

Date of Testing : 09.11.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.95	95-100	85-100
20	48.45	30-70	0-20
10	22.80	10-35	0-5
4.75	2.30	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.12/MS Angle/2015-16

16.11.2015

TEST REPORT ON STRUCTURAL STEEL

Customer : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of work : Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015

Samples ID : Samples Supplied By Agency

Specimen Size : ISA-65X65X6mm (1m Length)

Sl.No	Description	Result
1	Thickness	6.04 mm
2	Width	65.02 mm
3	Weight / Meter	5.88 Kg

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Job No.: CTCE/BBMP/KRIDL/W.No.12/MS Pipe/2015-16 16.11.2015

TEST REPORT ON M.S PIPE (38mm Dia)

Customer : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of work : Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015

Specimen Size : M.S Pipe 38mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	1.98 mm
2	Inner Diameter	38.10 mm
3	Outer Diameter	42.06 mm
4	Weight / Meter	1.86 kg

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Job No.: CTCE/BBMP/KRIDL/W.No.12/Fencing/2015-16 16.11.2015

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Customer : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of work : Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015

Samples ID : Samples Supplied By Agency

Sl.No	Description	Result
1	Diameter	4.02 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.18 Kg

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-11/988e/CUBE/2015-16 25.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Technical Manager,** KRIDL, Bangalore.

***Name of the work** : Providing Chain Link Fencing to Shettyhalli Burial Ground in Ward No.12 in Project Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/PR/2014-15 Dated: 07.11.2015

***Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 25.12.2015

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2015	25.12.2015	8.163	493.2	21.92
2	27.11.2015	25.12.2015	8.354	518.6	23.05
3	27.11.2015	25.12.2015	8.275	502.4	22.33

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